k.I	umbor: 09/403, 269 ENTEDE System of the STIC System of the CRE Processing Date: 4/24/2010
	Changed a tile from non-ASCII to ASCII
	Changed the margins in cases where the sequence text was wrapp TECH CENTER 1600/2900
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the Number of Sequences field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
•	Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were edited were:
1	nserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited:
(	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included
•	Doloted extra, invalid, hoadings used by an applicant, specifically:
-	Deleted: non-ASCII *garbage* at the beginning/end of files; secretary initials/filename at end of file page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
,	Corrected an obvious error in the response, specifically:
- {	Edited idontifiors where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
/	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted
) e Su	eloted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error to a Patentin bug). Sequences corrected:
	Other Sequence 9 - inserted hard returns
_	
_	ブルトベーツ ・・・・・

Action. DO NOT send a copy of this form.

DATE: 04/24/2001

TIME: 13:16:40

1652

```
Input Set : A:\003300-589.ST25.txt
                                                                           Does Not Comply
                     Output Set: N:\CRF3\04242001\I403269.raw
                                                                        Corrected Diskette Needed
      3 <110> APPLICANT: ULF, Lindahl
        LI, Jin-Ping
      6 <120> TITLE OF INVENTION: DNA Sequence Coding for a Mammalian Glucuronyl C5-Epimerase
and a
              Process for Its Production
      9 <130> FILE REFERENCE: 003300-589
    11 <140> CURRENT APPLICATION NUMBER: US 09/403,269
    12 <141> CURRENT FILING DATE: 1999-10-18
    14 <150> PRIOR APPLICATION NUMBER: SE 9701454-2
    15 <151> PRIOR FILING DATE: 1997-04-18
    17 <150> PRIOR APPLICATION NUMBER: PCT/SE98/00703
    18 <151> PRIOR FILING DATE: 1998-04-17
    20 <160> NUMBER OF SEQ ID NOS: 13
    22 <170> SOFTWARE: PatentIn version 3.0
    25 <210> SEQ ID NO: 1
    26 <211> LENGTH: 17
    27 <212> TYPE: DNA
    28 <213> ORGANISM: Human
    30 <400> SEQUENCE: 1
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                                                                              17
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    35 <211> LENGTH: 13
    36 <212> TYPE: PRT
    37 <213> ORGANISM: Human
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  46 Pro Asn Asp Trp Xaa Val Pro Lys Gly Cys Phe Met Ala
    47 1
                       5 ,
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/403,269

DATE: 04/24/2001

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PATENT APPLICATION: US/09/403,269
                                                           TIME: 13:16:40
                     Input Set : A:\003300-589.ST25.txt
                     Output Set: N:\CRF3\04242001\I403269.raw
      71 <222> LOCATION: (4)..(4)
      72 <223> OTHER INFORMATION: Amino acid 4 is Xaa wherein Xaa = any amino acid.
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      76 Pro Asn Asp Xaa Thr Val Pro Lys
      77 1
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     82 <213> ORGANISM: Human
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     85 <221> NAME/KEY: PEPTIDE
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                      5
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     96 <212> TYPE: PRT
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    / 129 Leu Arg His Phe Met Leu Gly Ile Ala Pro Asn Leu Ala Xaa Trp Asp
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    132 Tyr His Thr Thr
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    135 <210> SEQ ID NO: 9<211> 25<212> DNA<213> Human<220><221> misc_feature<222>
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W--> 139 <212> TYPE:
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 04/24/2001 PATENT APPLICATION: US/09/403,269 TIME: 13:16:40

Input Set : A:\003300-589.ST25.txt

Output Set: N:\CRF3\04242001\1403269.raw

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                                                                               111
    184
                      Met Ser Phe Glu Gly Tyr Asn Val Glu Val Arg Asp Arg
    185
    187 gtc aag tgc ata agt ggg gtt gaa ggt gta cct tta tct aca cag tgg
                                                                               159
    188 Val Lys Cys Ile Ser Gly Val Glu Gly Val Pro Leu Ser Thr Gln Trp
    189
            15
                                 20
    191 gga cct caa ggc tat ttc tac cca atc cag att gca cag tat ggg tta
                                                                               207
    192 Gly Pro Gln Gly Tyr Phe Tyr Pro Ile Gln Ile Ala Gln Tyr Gly Leu
    195 agt cac tac agc aag aat cta act gaa aaa ccc cct cat ata gag gta
                                                                              255
    196 Ser His Tyr Ser Lys Asn Leu Thr Glu Lys Pro Pro His Ile Glu Val
                        50
                                             55
    199 tat gaa aca gca gaa gac agg gac aaa aac agc aag ccc aat gac tgg
                                                                              303
    200 Tyr Glu Thr Ala Glu Asp Arg Asp Lys Asn Ser Lys Pro Asn Asp Trp
                    65
                                        70
    203 act gtg ccc aag ggc tgc ttt atg gct agt gtg gct gat aag tca aga
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    204 Thr Val Pro Lys Gly Cys Phe Met Ala Ser Val Ala Asp Lys Ser Arg
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RAW SEQUENCE LISTING

DATE: 04/24/2001 PATENT APPLICATION: US/09/403,269 TIME: 13:16:40

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Output Set: N:\CRF3\04242001\I403269.raw

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200	o Ph	e Thi	r As	n Va	l Ly	s Glr	Phe	e Ile	e Āla	a Pro	o Gl	u Th	r Se	r Gl	u Gl	y Val	399
203	9	95					100	)				10	5				
213	l tc	c tt	g ca	a ct	g gg	g aac	aca	aaa	a gat	t tt	t at	t at	t to	a tt:	t. σa	c ctc	447
214	s se.	г те	1 G1:	n Lei	u Gly	y Asr	Thr	Lys	s Āsp	Phe	e Ile	e Il	e Se:	r Ph	e Ası	e Leu	44/
213	) TT(	J				115	)				120	0				125	
215	aaq	g tto	c tt	a aca	a aat	t gga	ago	gto	, tct	gto	a ati	t ct	σ σα σ	тас	таса		495
210	ь глуг	s Phe	e Le	u Thi	r Ası	n Gly	Ser	Va]	Ser	· Val	l Va	l Lei	ı Glu	ı Thi	r Thi	r Glu	493
21/					13(	)				135	5				140	}	
219	aag	j aat	cag	g cto	tto	act	gta	cat	tat	gto	tea	a aat	aco	cac	T of:	2++	543
220	, гуг	s Asr	ı Glı	ı Lei	ı Phe	Thr	Val	His	Tyr	· Val	Sei	: Ası	Thi	Glr	i Lei	ı Ile	343
221	-			145	)				150	)				159	5		
223	gct	: ttt	aaa	a gaa	aga	gac	ata	tac	tat	ggc	ato	gad	ı ccc	aga	. aca	tca	591
224	ATG	ı Phe	Lys	s Glu	ı Arg	, Asp	Ile	Tyr	Tyr	· Gly	, Ile	Gly	, Pro	Arc	r Thr	Ser	3,71
243			Τρ(	)				165	i				170	1			
227	tgg	ago	aca	gtt	acc	cgg	gac	ctg	gtc	act	gac	cto	agg	aaa	ι ααα	gtg	639
220	115	, ser	1.111	· Val	. Thr	Arg	Asp	Leu	Val	Thr	Asp	Let	ı Arq	Lvs	Glv	Val	033
229		T/3					180					185	,				
231	ggt	ctt	tcc	aac	aca	aaa	gct	gtc	aag	cca	aca	aga	ata	atq	ccc	aag	687
232	GTÄ	ьeu	Ser	Asn	Thr	Lys	Ala	Val	Lys	Pro	Thr	Arg	Ile	Met	Pro	Lys	007
233	T 9 0					195					200					205	
235	aag	gtg	gtt	agg	ttg	att	gcg	aaa	ggg	aag	ggc	tto	ctt	qac	aac	att	735
230	Lys	Val	Val	Arg	Leu	Ile	Ala	Lys	Gly	Lys	Gly	Phe	Leu	Asp	Asn	Ile	
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239	acc	atc	tct	acc	aca	gcc	cac	atg	gct	gcc	ttc	ttc	gct	qcc	agt	qac	783
240	Thr	Ile	Ser	Thr	Thr	Ala	His	Met	Ala	Ala	Phe	Phe	Ala	Ala	Ser	Asp	
24 <u>1</u>				225					230					235		_	
243	tgg	ctg	gtg	agg	aac	cag	gat	gag	aaa	ggc	ggc	tgg	ccg	att	atg	gtg	831
244	Trp	Leu	vaı	Arg	Așn	Gln	Asp	Glu	Lys	Gly	Gly	Trp	Pro	Ile	Met	Val	
243			240					245					250				
24/	mb-	eg t	aag	tta -	ggg	gaa	ggc	ttc	aag	tct	tta	gag	cca	ggg	tgg	tac	879
249	THE	Arg	ьуs	Leu	GLY	Glu	Gly	Phe	Lys	Ser	Leu	Glu	Pro	Gly	Trp	Tyr	
	+	255					260					265					
251	COC	gee	atg	gcc	caa	ggg	caa	gcc	att	tct	aca	tta	gtc	agg	gcc	tat	927
253	270	Ата	мет	Ата	GIn	Gly	GIn	Ala	Ile	Ser		Leu	Val	Arg	Ala	Tyr	
		++-				275					280					285	
255	Tou	LLa	mb~	aaa	gac	cat	ata	ttc	ctc	aat	tca	gct	tta	agg	gca	aca	975
257	ьец	Leu	THE	гĀ2	ASP	His	TTE	Phe	Leu		Ser	Ala	Leu	Arg	Ala	Thr	
	~~~	aat	+		290					295					300		
260	η C C	Dro	mar.m	aag	בננ	ctg	tca	gag	cag	cat	gga	gtc	aag	gct	gtg	ttt	1023
261	мта	PIO	тАт	луs 305	Pne	Leu	Ser	Glu	Gln	His	Gly	Val	Lys	Ala	Val	Phe	
	atα	22+	222			<b>.</b>			310					315			
264	ucy Mot	aat Aen	Two	Cal	yac 3an	tgg	tat	gaa	gaa	tat -	cca	act	aca	cct	agc	tct	1071
265	1166	USII	320	пт	ASP	Trp	ryr (	G L U	GLu	Tyr	Pro	Thr	Thr	Pro	Ser	Ser	
	+++			22+	~~~	+++	. + ~ +	325					330				
268	Phe	yuu Val	L.GII	aat Aen	990 61++	ttt .	atg i	Lat	TCT	τta	att	ggg	ctg	tat	gac	tta	1119
269		335	u	11011	ату	Phe	14C :	тÀL	ser	ьeu	тте	GLY	Leu	Tyr	Asp	Leu	
		555					340					345					

RAW SEQUENCE LISTING DATE: 04/24/2001 PATENT APPLICATION: US/09/403,269 TIME: 13:16:40

Input Set : A:\003300-589.ST25.txt

Output Set: N:\CRF3\04242001\I403269.raw

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	Glu	Arg	Gly	Met	Glu	Ser	Leu	Lys	Ala	Met	Leu	Pro	Leu	Tyr	Asp	Thr	
277					370					375					380		
279	ggc	tca	gga	acc	atc	tat	gac	ctc	cgg	cac	ttc	atg	ctt	ggc	att	gcc	1263
	Gly	Ser	Gly		Ile	$\mathtt{Tyr}$	Asp	Leu		His	Phe	Met	Leu		Ile	Ala	
281				385					390					395			
	ccc																1311
	Pro	Asn		Ala	Arg	${\tt Trp}$	Asp		His	Thr	Thr	His	Ile	Asn	Gln	Leu	
285			400					405					410				
	cag																1359
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289		415					420					425					
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	Lys	Arg	Trp	Lys	Ser		Leu	Lys	Gly	Ser	_	Ala	Lys	His	Asn		
	430					435					440						
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303	tgtt	taac	ידד פ	gcct	cgct	t at	.cacc	ctgt	tca	gttc	cac	aggt	agto	ca c	ittet	ctcga	1704
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311	adda	acaa təsə	Ly L	.gc.a	+++	.a Ca	y caa tata	.a.a.	. gla	cttg	cag	cctg	atag	rtg a	ictgt	gtgca itttgt	1884
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																ttttc	2424
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333	tatt	tcag	ct c	ttgg	ataa	a aq	tgat	qcta	cta	tatt	agc	tota	cato	ta t	aatc	agacc	2604
335	ttta	tttt	qq t	ttta	tatc	c ca	cata	cctc	aca	taaa	taq	gcat	cata	ac c	ctca	caccc	2664
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339	tgtc	tctg	tt t	tagt	gtat	g ac	aata	cagt	aaa	tcaa	tac	aata	actt	at a	caga	ttgga	2784
341	aata	cgag	at c	cggt	actt	t ca	gagg	actq	agt	ctga	cac	acqc	aqtq	ca q	tata	tgtgt	2844
343	gacc	tgta <sup>.</sup>	tg a	aatg	caca	t ca	agag	cgag	gtg	gcac	ctg	cctg	ccac	tg c	atct	tgcct	2904
345	ggac	ttag <sup>.</sup>	tc t	acca	acac	c ac	tcag	aaat	ggc	aaaa	tgc	atac	atgc	ct t	tgag	caaca	2964
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349	aagt	cgtg	tc c	aact	cttt	g tg	acct	cata	gac	tgta	gcc	cgcc	aggc	tt ć	tttg	tccat	3084
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	<210																
355	<211	> LE	NGTH	: 44	4												

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/403,269

DATE: 04/24/2001 TIME: 13:16:41

Input Set : A:\003300-589.ST25.txt

Output Set: N:\CRF3\04242001\I403269.raw

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L:139 M:282 W: Numeric Field Identifier Missing, <211> is required. L:139 M:282 W: Numeric Field Identifier Missing, <212> is required. L:139 M:282 W: Numeric Field Identifier Missing, <212> is required. L:154 M:341 W: (46) "P" or "Nat"

L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11